

Record 24: JP58013605A**(ENG) PREPARATION OF ETHYLENIC COPOLYMER****Assignee:** SHOWA DENKO KK

[no drawing available]

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KENJI**Application No:** JP 11230181 A**Filing Date:** 19810720**Issue/Publication Date:** 19830126

Abstract: (ENG) <sec>PURPOSE: To obtain the titled copolymer having improved impact strength, enviromental stress cracking resistance, and molding properties, causing few granular structure and low irregularity of a molded article, by polymerizing two kinds of copolymers having different intrinsic viscosities and a specific viscosity ratio by a Ziegler catalyst having a particular specific activity by two-steps. CONSTITUTION: By using a highly active Ziegler catalyst having a specific activity (RSpH) ≥ 800 g/g hr ethylene pressure kg/cm² in polymerization of a polyethylene having an intrinsic viscosity (η) of ≥ 1 and a ratio of a specific activity RSpL) in polymerization of a polyethylene having an intrinsic viscosity (η) of ≥ 2 to the above-mentioned RSpH or $1 < RSpL/RSpH < 3$, 30W70wt% copolymer of ethylene and ≥ 5 C α -olefin having an intrinsic viscosity (η) of ≥ 2 is formed, and 70W30wt% copolymer of ethylene and ≥ 5 C α -olefin having an intrinsic viscosity (η) of $0.3 \leq \eta < 1.0$, to give the desired copolymer having a ratio of (η)_a / (η)_b of $4.5 \leq \eta < 9.0$ and an intrinsic viscosity (η) of $2.0 \leq \eta < 3.5$. </sec>

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